BRUHAT BENGALURU MAHANAGARA PALIKE

MODIFIED ESTIMATE

Name Of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	Rate	Lakhs Amount
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)Complete as per the direction of Engineer in charge with all lead and lift								
	Qty Paid Upto 3rd And Part Bill	Sqm					13265.28		
							13265.28	112.00	1485711.36
2	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift								
	Dismantling	Cum							
	Qty Paid Upto 3rd And Part Bill		1				12285.84		
							12285.84	238.00	2924030.05
3	Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift								
	Dismantling	Sqm							
	Qty Paid Upto 3rd And Part Bill						302.10		
							302.10	4524.00	1366709.45
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm Complete as per the direction of Engineer in charge with all lead and lift								
	Earthwork	Cum							
	Qty Paid Upto 3rd And Part Bill						637.09		
							637.09	7141.00	4549452.55
5	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. Complete as per the direction of Engineer in charge with all lead and lift								
	PCC	ton							
	Qty Paid Upto 3rd And Part Bill						40.46		
							40.46	73050.00	2955756.24

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	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.-do with solid concrete blocks of size 400*200*200 mm Complete as per the direction of Engineer in charge with all lead and lift								
		Sqm							
	Qty Paid Upto 3rd And Part Bill						10331.60		
							10331.60	976.00	10083642.77
7	Providing ruled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications.– do – cement mortar 1:3 Complete as per the direction of Engineer in charge with all lead and lift								
		Sqm							
	Qty Paid Upto 3rd And Part Bill						31676.80		
							31676.80	152.00	4814874.33
8	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in For Coping , including cost of all materials, labour, HOM curing omplete as per specifications. SComplete as per the direction of Engineer in charge with all lead and lift								
		cum							
	Qty Paid Upto 3rd And Part Bill						1187.88		
							1187.88	5656.00	6718672.58
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 10 cms thick Complete as per the direction of Engineer in charge with all lead and lift								
		Sqm							
	Qty Paid Upto 3rd And Part Bill						7085.92		
							7085.92	976.00	6915858.12
10	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. Complete as per the direction of Engineer in charge with all lead and lift								
		Sqm							
	Qty Paid Upto 3rd And Part Bill						7085.92		
							7085.92	960.00	6802485.79
11	Providing chamfering edges to stone slab 2.5 cms. Wide as per specifications. (only chamfered length shall be recorded) Complete as per the direction of Engineer in charge with all lead and lift								
		Sqm							

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	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Qty Paid Upto 3rd And Part Bill						33068.00		
							33068.00	62.00	2050216.00
12	Providing and Fixing RCC Precast Cover Slab of 250 mm Thick for Drains in Cement Concrete M-20 using graded granite Jelly of 20 mm and down size with steel Reinforcement, including form work lift charges, curing and concrete finished surface on both sides etc., as per drawing and the direction of Enginner-in-charge.Data Rate								
		Sqm							
	Qty Paid Upto 3rd And Part Bill						219.20		
							219.20	5476.00	1200339.20
13	Removing and resetting of kerb stones.Complete as per the direction of Engineer in charge with all lead and lift								
		Sqm							
	Qty Paid Upto 3rd And Part Bill						14047.80		
							14047.80	106.00	1489066.54
14	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., Complete as per the direction of Engineer in charge with all lead and lift								
	New Kerb	no's							
	Qty Paid Upto 3rd And Part Bill						20700.00		
	No of Kerb Legth/.45						20700.00	460.00	9522000.00
15	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift								
		Sqm							
	Qty Paid Upto 3rd And Part Bill						0.00		
							0.00	86.00	0.00
16	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift								
		cum							
	Qty Paid Upto 3rd And Part Bill						2316.13		
							2316.13	85.00	196871.39
17	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift								

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	Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Road Widening Portion		Cum							
	Qty Paid Upto 3rd And Part Bill									
								2215.04		
								2215.04	2000.00	4430084.00
18	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift									
	Road Widening Portion		Cum							
	Qty Paid Upto 3rd And Part Bill									
								3397.56		
								3397.56	2000.00	6795128.80
19	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.									
			sqm							
	Qty Paid Upto 3rd And Part Bill							14772.01		
								14772.01	30.00	443160.30
20	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift									
			Sqm							
	Qty Paid Upto 3rd And Part Bill							56510.87		
								56510.87	5.00	282554.35
21	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift									
			Sqm							
	Qty Paid Upto 3rd And Part Bill							127818.54		
								127818.54	13.00	1661641.02

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	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. Clause 505 of morth V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen. Complete as per the direction of Engineer in charge with all lead and lift								
		Cum							
	Qty Paid Upto 3rd And Part Bill								
							3564.77		
							3564.77	7010.00	24989006.16
23	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. -using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen Complete as per the direction of Engineer in charge with all lead and lift								
		cum							
	Qty Paid Upto 3rd And Part Bill						2851.81		
							2851.81	8010.00	22842985.28
24	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift								
		sqm							
	Qty Paid Upto 3rd And Part Bill						0.00		
	muthyalnagar								
	W0101 From Lakshmivenkateshwara Traders		2	198.80	0.10		39.76		
	W0101 2nd A Main Road		2	21.30	0.10		4.26		
	W0093 2nd B Main Road opp to #303		2	171.00	0.10		34.20		
	W0099 from 2nd A Main Road		2	142.00	0.10		28.40		
	CROSS ROAD IN W0099		2	25.00	0.10		5.00		
	W0091 (From sri Muneshwara Nilaya)		2	107.00	0.10		21.40		
	W0087 2nd Main Road (From shivana Anugraha NILAYA)		2	98.00	0.10		19.60		
	CROSS ROAD-1 IN W0087		2	18.80	0.10		3.76		
	CROSS ROAD-2 IN W0087		2	17.00	0.10		3.40		
	W0077 (From Tiruvanam #448)		2	92.30	0.10		18.46		
	W0067 E Main Road (From Malayadri Vihari)		2	86.30	0.10		17.26		
	W0063 (from # 504)		2	125.60	0.10		25.12		
	W0034 (from 4th cross road)		2	157.00	0.10		31.40		
	W0036 (from #363)		2	74.10	0.10		14.82		
	W0105 (from sri Brahamalingeshwara condiments)		2	227.00	0.10		45.40		
	CROSS ROAD IN W0105		2	19.80	0.10		3.96		
	W0064 Sona Park Opposite		2	33.00	0.10		6.60		
	W0066 From Kanasu		2	43.90	0.10		8.78		
	W0068 From Ramya Ladies Tailor		2	8.60	0.10		1.72		
	W0024 FromVamsi Medicals		2	79.00	0.10		15.80		
	W0073 #571 5th Main Road		2	281.00	0.10		56.20		
	W0075 #18 From Dhruthi Nilaya		2	179.00	0.10		35.80		
	W0083 #550C Spruthi Nivasa		2	198.00	0.10		39.60		
	W0085 #Benaka krupe		2	35.00	0.10		7.00		

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Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
Cool Crust(Air Conditiors)		2	23.50	0.10		4.70		
W0097 From Tata Health		2	19.00	0.10		3.80		
W0095 #18 Apoorva Nilaya		2	82.20	0.10		16.44		
W0100 #suhrdha (Left)		2	96.00	0.10		19.20		
W0100 #suhrdha (Right)		2	22.70	0.10		4.54		
W0028 # Keerthi Bazzar		2	78.00	0.10		15.60		
W0070 #2B 1st Main Road		2	235.00	0.10		47.00		
W0081 # Meenakshi Nilaya		2	48.00	0.10		9.60		
W0070 #98 shreyas Nilaya		2	78.00	0.10		15.60		
W00113 # AM Haircut Saloon		2	502.00	0.10		100.40		
W0062 #2-37 srinivas Nilaya		2	38.30	0.10		7.66		
W0060 4th Cross Road		2	31.80	0.10		6.36		
W0056 #16 Matru Krupa		2	30.00	0.10		6.00		
#5 Sri Nilaya		2	25.50	0.10		5.10		
W0052 #27 Sapthgiri Nilaya		2	21.80	0.10		4.36		
W00113 # AM Haircut Saloon		2	87.00	0.10		17.40		
W00119 #Health Care IT Solution MSR Plaza		2	229.00	0.10		45.80		
W00121 #From HP Petrol Pump		2	200.00	0.10		40.00		
W0042 # Mullukattamma Devi		2	17.45	0.10		3.49		
W0044 # Nandini Mother Dairy		2	420.00	0.10		84.00		
W0065 # Rageyendra Wheel Alignment		2	156.00	0.10		31.20		
W0040 #381 Sri Ramanikethan		2	69.00	0.10		13.80		
W0038 # vijayadurga Laundry		2	40.00	0.10		8.00		
# 873 3rd Main Road		2	169.00	0.10		33.80		
W0053 #Muthooth Finance		2	147.00	0.10		29.40		
W0022 #857 Lakshmi Nilaya		2	26.70	0.10		5.34		
W0051 # Briyani & Kabab Centre		2	157.50	0.10		31.50		
W0010 # 754 & 753 Railway Line Beside		2	24.50	0.10		4.90		
W0049 From Sapthagiri Nilaya		2	292.50	0.10		58.50		
W0055 #599A		2	100.80	0.10		20.16		
W0057 #596 Lakshmi Nivas		2	99.60	0.10		19.92		
#43 Udayam Home opposite		2	33.20	0.10		6.64		
#598/5 Venkatalakshmi Nilaya		2	130.00	0.10		26.00		
W0047 #598 Sunrays		2	17.00	0.10		3.40		
W0045 #610B		2	15.80	0.10		3.16		
W0024 #622 Vishwa Nilaya		2	111.80	0.10		22.36		
W0026 #589 Sultan Sarah		2	24.00	0.10		4.80		
W0012 #766 Balan		2	111.60	0.10		22.32		
SBM COLONY								
8th Main road		2	420.00	0.10		84.00		
1st Cross road From Saani Enterprises(W0345)		2	226.00	0.10		45.20		
2nd Cross Road From Big Tree (W0337)		2	47.00	0.10		9.40		
2nd Cross Road From Kailash House (W0337)		2	232.00	0.10		46.40		
3rd Cross Road From GS Ramachandra House (W0337)		2	195.00	0.10		39.00		
4th Cross Road From Naveen Niliya (W0327)		2	201.00	0.10		40.20		
Cross Road -1 in W0327		2	17.00	0.10		3.40		
Cross Road -2 in W0327		2	8.00	0.10		1.60		
4th Cross Road From ELIM House Road (W0327)		2	186.00	0.10		37.20		
Cross Road -1 in W0327		2	17.00	0.10		3.40		
Cross Road From ARABIAN QUEEN Road (W0335)		2	120.00	0.10		24.00		
Cross Road From Honna Deepa Road (W0198)		2	57.00	0.10		11.40		
6th Cross Road From Fortune Departmental Store (W0327)		2	187.00	0.10		37.40		
Cross Road (W0168)		2	33.00	0.10		6.60		
7th Cross Road From SWD (W0307)		2	176.00	0.10		35.20		
7th Cross Road From MAB Coaching Centre (W0307) J.S.O Ch		2	226.00	0.10		45.20		
8th Cross Road From New Modern Fancy Store (W0303)		2	166.50	0.10		33.30		
8th Cross Road From New Modern Fancy Store opposite (W03		2	226.00	0.10		45.20		
SUNDAR NAGARA								
1st Cross Road (W0123) left side		2	173.00	0.10		34.60		
1st Cross Road (W0123) Right side		2	150.00	0.10		30.00		

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	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	2nd Cross Road (W0129) From Ashwani Hospital opposite		2	133.00	0.10		26.60		
	2nd Cross Road (W0129) From Ashwani Hospital		2	200.00	0.10		40.00		
	Cross Road (W092)		2	45.40	0.10		9.08		
	2nd Cross Road (W0196) From Chaitanya Hwalth Care		2	74.60	0.10		14.92		
	3rd Cross Road (W0131) From Hopcoms opposite		2	88.80	0.10		17.76		
	3rd Cross Road (W0131) From Hopcoms		2	122.70	0.10		24.54		
	4th Cross Road (W0145) From Samvida nilaya #31		2	60.00	0.10		12.00		
	4th Cross Road (W0145) From #132		2	116.00	0.10		23.20		
	5th Cross Road (W0147) From Biji Villa Home Road		2	25.00	0.10		5.00		
	5th Cross Road (W0147) From #153		2	118.00	0.10		23.60		
	5th A Cross Road		2	36.00	0.10		7.20		
	5th B Cross Road		2	43.00	0.10		8.60		
	1st Main Road (From Electric Transformer)		2	227.00	0.10		45.40		
	Muniyappa Compound Road(w0094)		2	109.00	0.10		21.80		
	5th Cross Road(w0104)		2	57.00	0.10		11.40		
	W0329(From Srimathi. Shantha Chandrashekar)		2	63.00	0.10		12.60		
	W0323(From Siri Vennala Nilaya)		2	79.00	0.10		15.80		
	W0319(5th main Road from Cotton Ladies Wear & Mens Wea		2	79.00	0.10		15.80		
	W0311(6th main road from Pushpa Nivas)		2	94.00	0.10		18.80		
	W0309(7th Main Road from GNS Provisions Store)		2	108.00	0.10		21.60		
	W0301(From Ramaiah Samadhi Gate)		2	121.00	0.10		24.20		
	W0154(From RS Beside Road Sudhanva Nilaya)		2	51.70	0.10		10.34		
	W0299(From Trupti Nilaya)		2	98.30	0.10		19.66		
	W0293(From RS Right Side)		2	130.00	0.10		26.00		
	W0293(From RS Sri Balaji Nilaya)		2	90.00	0.10		18.00		
	W0158 15th Main Road(From Sri Srinavasa Polyclinic and Dia		2	65.30	0.10		13.06		
	W0166(12th Main Road From Lakshmi Furniture & Interiors)		2	107.30	0.10		21.46		
	W0174(11th Main Road From Vijay Boutique)		2	95.20	0.10		19.04		
	W0297(9th Cross Road From Monica Medicals & General Stor		2	178.00	0.10		35.60		
	W0188(7th Main Road From MedPlus)		2	91.00	0.10		18.20		
	W0190(6th MR from Canata Bank ATM)		2	53.00	0.10		10.60		
	W0295(10th Cross Road From #56 Sushila Nilaya)		2	151.00	0.10		30.20		
	W0192(From 5th Main Road)		2	52.40	0.10		10.48		
	W0304(3rd Main Road from World of Music)		2	177.00	0.10		35.40		
	W0310(2nd Main Road from Deepak Dental Clinic)		2	31.00	0.10		6.20		
	W0312(1st Main Road from Food Mart Super Market)		2	87.00	0.10		17.40		
	1st B Main Road Purnapura Chanappa Garden		2	54.50	0.10		10.90		
	3rd Main Road Sundarnagara		2	180.00	0.10		36.00		
	3rd Main Road Sundarnagara Cross Road		2	36.00	0.10		7.20		
	2nd Main Road (From Yogi Vemana #7/A Sadana)		2	49.00	0.10		9.80		
	From Wellcare Healthy Living Beside Railway Track		2	319.00	0.10		63.80		
							2721.89	463.00	1260235.07
25	Road markers / Road stud Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift								
		No's					0.00		
	Qty Paid Upto 3rd And Part Bill								
							0.00	361.00	0.00
)	Borewell								

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Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
Geophysical investigation of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,P.W.S.S by vertical electrical sounding by adpoting venner or Schlumberger's method,including reconnaissance survey of Geological formation. Geophysical investigation of existing ground indecundity its quality & acceptability of the users indicating the location of site,recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre inconsolidated formation for proper seating of casing pipe,depth of drilling required to cover full depth of aquifer proposed to be tapped,probable yield and other information required including transportation of instrument and accesories to work site,engaging technical personal and labour required etc.,(Issue rate as on date 02/05/2019 lt.13.04)		No	6				6.00	3805.68	22834.00
Basic Rate	3768.00								
TP 1 %	37.68								
G Total	3805.68								
27 Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) (Issue rate as on date 02/05/2019 lt.13.01)									
0 to 50 m		Rmt	6	50.00			300.00	350.47	105141.00
Basic Rate	347.00								
TP 1 %	3.47								
G Total	350.47								
50 to 100 m		Rmt	6	50.00			300.00	446.42	133926.00
Basic Rate	442.00								
TP 1 %	4.42								
G Total	446.42								
100 to 150 m		Rmt	6	50.00			300.00	460.56	138168.00
Basic Rate	456.00								
TP 1 %	4.56								
G Total	460.56								
150 to 200 m		Rmt	6	50.00			300.00	541.36	162408.00
Basic Rate	536.00								
TP 1 %	5.36								
G Total	541.36								
200 to 250 m		Rmt	6	50.00			300.00	640.34	192102.00
Basic Rate	634.00								
TP 1 %	6.34								
G Total	640.34								
250 to 300 m		Rmt	6	50.00			300.00	707.00	212100.00
Basic Rate	700.00								
TP 1 %	7.00								
G Total	707.00								
300 to 350 m		Rmt	6	50.00			300.00	833.25	249975.00
Basic Rate	825.00								
TP 1 %	8.25								
G Total	833.25								
350 to 400 m		Rmt	6	50.00			300.00	909.00	272700.00

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	Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Basic Rate	900.00								
	TP 1 %	9.00								
	G Total	909.00								
	400 to 420 m		Rmt	6	20.00			120.00	1140.29	136835.00
	Basic Rate	1129.00								
	TP 1 %	11.29								
	G Total	1140.29								
28	Providing and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)									
			Rmt	12	6.00			72.00	2626.00	189072.00
	Basic Rate	2600.00								
	TP 1 %	26.00								
	G Total	2626.00								
29	Supply of ISI Mark **175mm** nominal Bore, Plain end **steel casing Pipe**-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty. (Page No.III,It no.84)PRED SR 2012-13.									
			Rmt	6	70.00			420.00	1338.25	562065.00
	Basic Rate	1325.00								
	TP 1 %	13.25								
	G Total	1338.25								
30	Providing **175mm Dia M.S. Collar** (P.No.iii,I.No.86) PRED SR 2012-13									
			No	70				70.00	151.50	10605.00
	Basic Rate	150.00								
	TP 1 %	1.50								
	G Total	151.50								
31	Providing **175mm dia Bore Cap** CE (M) (P.No.iii,I.No.85) PRED SR 2012-13									
			No	6				6.00	101.00	606.00
	Basic Rate	100.00								
	TP 1 %	1.00								
	G Total	101.00								
32	Atalanta suguna CRI **KIRLOSKAR** and other equipments **pumps** 10.00 **HP/7.5 KV (20 stage)** (Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
			No	6				6.00	50454.55	302727.00
	Basic Rate	49955.00								
	TP 1 %	499.55								
	G Total	50454.55								

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	Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Providing and fixing in trenches **galvinised/mild steel tube 50mm dia nominal bore** with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/lt no.13.15)KPWD SR 2018-19.		Rmt	6	378.00			2268.00	415.39	942111.00
	Basic Rate	388.00								
	A.W @ 6%	23.28								
	TP 1 %	4.11								
	G Total	415.39								
34	Supplying and drawing **3 core flat PVC** sheathed submersible **pump cable** maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm (PWD Ele SR 2014-15,P-12/lt-2.10.3)									
	Add 5mts for Switching		Rmt	12	383.00			4596.00	127.97	588136.00
	Basic Rate	126.70								
	TP 1 %	1.27								
	G Total	127.97								
35	Providing and fixing in position **50mm Nominal bore non-return valve** vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/lt no.13.62)									
			No	6				6.00	1358.59	8152.00
	Basic Rate	1269.00								
	A.W @ 6%	76.14								
	TP 1 %	13.45								
	G Total	1358.59								
36	Spplying and fixing **50mm GI Union.**(PWD SR 2018-19,P-XXXIX)									
			No	6				6.00	225.94	1356.00
	Basic Rate	223.70								
	TP 1 %	2.24								
	G Total	225.94								
37	Spplying and fixing **50mm GI Elbow.**(PWD SR 2018-19,P-XXXIX)									
			No	6				6.00	112.92	678.00
	Basic Rate	111.80								
	TP 1 %	1.12								
	G Total	112.92								
38	Spplying and fixing **50mm GI Nipple.**(PWD SR 2018-19,P-XXXIX)									
			No	6				6.00	105.34	632.00
	Basic Rate	104.30								
	TP 1 %	1.04								
	G Total	105.34								

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	Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
39	Spplying and fixing 50mm GI Hose colleres(PWD SR 2018-19,P-XXXIX)									
			No	378						
	Basic Rate	103.00						378.00	104.03	39323.00
	TP 1 %	1.03								
	G Total	104.03								
40	Supplying and fixing 20" x 20" x 2.5" polished **wood board** made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P.no.44 / I no. 6.6.6 KPWD ELE SR 2019-20									
			No	6				6.00	305.02	1830.00
	Basic Rate	302.00								
	TP 1 %	3.02								
	G Total	305.02								
41	Supplying and fixing miniature circuit breakers on existing **MCB distribution board** using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2019-20,P-47/Sl no.6.16.6) 40-63 Amps									
			No	6				6.00	1955.36	11732.00
	Basic Rate	1936.00								
	TP 1 %	19.36								
	G Total	1955.36								
42	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2019-20,P-24,It-5.5.1)									
			No	6				6.00	1818.00	10908.00
	Basic Rate	1800.00								
	TP 1 %	18.00								
	G Total	1818.00								
43	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2019-20,p-29,Sl no.5.38)									
			No	6				6.00	434.30	2606.00
	Basic Rate	430.00								
	TP 1 %	4.30								
	G Total	434.30								
44	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2019-20,p-24,Sl no.-5.2.1)									
			No	6				6.00	6464.00	38784.00
	Basic Rate	6400.00								
	TP 1 %	64.00								
	G Total	6464.00								

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	Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2019-20,p-44/Sl no.5.3)									
			No	6				6.00	752.45	4515.00
	Basic Rate	745.00								
	TP 1 %	7.45								
	G Total	752.45								
46	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-6,lt-2.3.4(d)									
			Mtrs	6	20.00			120.00	45.45	5454.00
	Basic Rate	45.00								
	TP 1 %	0.45								
	G Total	45.45								
47	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2019-20,p-29/Sl no.5.37)									
			No	24				24.00	404.00	9696.00
	Basic Rate	400.00								
	TP 1 %	4.00								
	G Total	404.00								
48	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)									
			No	6				6.00	3029.70	18178.00
	Basic Rate	2999.70								
	TP 1 %	30.00								
	G Total	3029.70								
49	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,lt-6.6.2) hard soil									
			Mtrs	6	8.00			48.00	103.02	4945.00
	Basic Rate	102.00								
	TP 1 %	1.02								
	G Total	103.02								

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	Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,lt-6.4.4)									
			Mtrs	6	10.00			60.00	151.50	9090.00
	Basic Rate	150.00								
	TP 1 %	1.50								
	G Total	151.50								
51	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,lt-6.5.1)									
			No	6	25.00			150.00	11.92	1788.00
	Basic Rate	11.80								
	TP 1 %	0.12								
	G Total	11.92								
52	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-41,lt-6.9.1)									
			Rmt	6	2.00			12.00	338.35	4060.00
	Basic Rate	335.00								
	TP 1 %	3.35								
	G Total	338.35								
53	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,lt-6.10.2)									
			No	6				6.00	272.70	1636.00
	Basic Rate	270.00								
	TP 1 %	2.70								
	G Total	272.70								
54	Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-25,lt-5.7.3)									
			No	18				18.00	229.27	4127.00
	Basic Rate	227.00								
	TP 1 %	2.27								
	G Total	229.27								
55	**Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (KPWD SR 2018-19, P-140, lt 18.47)									

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Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
Bural Ground									
Water line		Cum	6	159	0.45	0.20	85.86		
							85.86	962.47	82638.00
Basic Rate	899.00								
A W 6 %	53.94								
TP 1 %	9.53								
G Total	962.47								

56 **Earthwork excavation** for foundation of buildings, **water supply**, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 (KPWD SR 2018-19, P-6, It-2.4)

Bural Ground									
Water line		Cum	6	159	0.45	0.30	128.79		
							128.79	480.70	61909.00
Basic Rate	449.00								
A W 6 %	26.94								
TP 1 %	4.76								
G Total	480.70								

57 Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - **50mm nominal** OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)

Bural Ground									
Water line		Mtr	6	159			954.00		
							954.00	462.50	441224.00
Basic Rate	432.00								
A W 6 %	25.92								
TP 1 %	4.58								
G Total	462.50								

58 Making connection of **G.I.distribution** branch with G.I.main of 25mm to 40mm. Nominal bore, including cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of works,testing and HOM of equipments complete as per specifications. (P.No.93/ I.No. 13.20 of KPWD SR 2018-19)

Water line		Each	6				6.00	517.10	3103.00
Basic Rate	483.00								
A W 6 %	28.98								
TP 1 %	5.12								
G Total	517.10								

59 Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - **20mm nominal** OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)

Distribution line		6	15.00			90.00		

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	Description of Items		Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Tap Connection		Mtr	6	1.00			6.00		
	Basic Rate	157.00						96.00	168.08	16136.00
	A W 6 %	9.42								
	TP 1 %	1.66								
	G Total	168.08								
60	Providing and fixing to wall, ceiling and floor **Medium density polyethylene pipes** 6.00 kgf/sq.cm working pressure **25mm outside diameter** with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)									
	for other Purposes		Mtr	6	152.00			912.00		
	Basic Rate	129.00						912.00	138.11	125954.00
	A W 6 %	7.74								
	TP 1 %	1.37								
	G Total	138.11								
61	KSRB 2-4 : **Refilling available around earth pipe lines**,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.(KPWD SR 2018-19, P-7, it-2.11)									
	70% of Qty Vide item No.31		Cum					90.15	129.54	11679.00
	Basic Rate	121.00								
	A W 6 %	7.26								
	TP 1 %	1.28								
	G Total	129.54								
62	**Loading and unloading** of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)									
	Balance Qty Vide item No. 30+ 30% of 31 item		Cum					124.50		
								124.50	98.94	12318.00
	Basic Rate	97.96								
	TP 1 %	0.98								
	G Total	98.94								
63	KSRB 2-4 : Providing and fixing in position **brass gate valve** with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. (P.No.94/ I.No. 13.37 of KPWD SR 2018-19)									
	For Main Line		Each	6				6.00	1861.77	11171.00
	Basic Rate	1739.00								
	A W 6 %	104.34								
	TP 1 %	18.43								
	G Total	1861.77								

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Description of Items			L (M)	B (M)	D (M)	Qty	Rate	Amount
KSRB13-6.2-1 : Providing and fi... bore including cost of all mater... specifications. Specification No. ... 19)								
Tap Connection								
						6		
Basic Rate	141.00					6.00	150.95	906.00
A W 6 %	8.46							
TP 1 %	1.49							
G Total	150.95							

rass stop cock of approved quality 15mm nominal
IOM of equipments with all leads complete as per
(Pg No:-93/I.No:-13.26 of KPWD SR 2018-19 2018-

KSRB 4-1.3 : Providing and laying in position **plain cement concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.3 of KPWD SR 2018-19)								
Bural Ground								
Water line		Cum	6	159	0.45	0.10	42.93	
							42.93	5861.86	251649.00
Basic Rate	5475.30							
A W 6 %	328.52							
TP 1 %	58.04							
G Total	5861.86							

Modified

Sub Total	13,12,00,169.34
Miscleaneous	4862.66
Grand Total	131205032.00

TECHNICAL SANCTION

Rs: 13120016 9/- Thirteen Crore Twenty Lakhs one hundred Sixty nine only is accorded under the head: P-3744

By CE(R.R.N.) R.N. 04-05

Registered as CE(R.R.N.) No. 15/1/22-23 subject to conditions contained in enclosed memo No: 15/1/22-23 Dt. 17/5/2022

CE (R.R.N.)

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Assistant Engineer
Ward No 17

Assistant Executive Engineer
Yashwanthapura Sub Division

Executive Engineer
RR Nagara Division

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